



April 17, 2020

Chongqing Peninsula Medical Technology Co., Ltd.
% Cassie Lee
Manager
Guangzhou GLOMED Biological Technology Co., Ltd.
2231, Building 1, Rui Feng Center, Kaichuang Road,
Huangpu District
Guangzhou, 51006 China

Re: K192552
Trade/Device Name: Irradiation Cosmetic Device
Regulation Number: 21 CFR 890.5500
Regulation Name: Infrared Lamp
Regulatory Class: Class II
Product Code: OAP
Dated: February 28, 2020
Received: March 11, 2020

Dear Cassie Lee:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database located at <https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm> identifies combination product submissions. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part

801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803) for devices or postmarketing safety reporting (21 CFR 4, Subpart B) for combination products (see <https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products>); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems>.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (<https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance>) and CDRH Learn (<https://www.fda.gov/training-and-continuing-education/cdrh-learn>). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (<https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice>) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Colin Kejing Chen
Acting Assistant Director
DHT4A: Division of General Surgery Devices
OHT4: Office of Surgical
and Infection Control Devices
Office of Product Evaluation and Quality
Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known)
K192552

Device Name
Irradiation Cosmetic Device

Indications for Use (Describe)

The Irradiation Cosmetic Device (Model: HairPro Plus) is indicated to promote hair growth in females with androgenetic alopecia who have Ludwig-Savin Classifications of I - II and males with androgenetic alopecia who have Norwood-Hamilton Classifications of IIa - V and for both, Fitzpatrick Classification of Skin Phototypes I to IV

Type of Use (Select one or both, as applicable)

Prescription Use (Part 21 CFR 801 Subpart D)

Over-The-Counter Use (21 CFR 801 Subpart C)

CONTINUE ON A SEPARATE PAGE IF NEEDED.

This section applies only to requirements of the Paperwork Reduction Act of 1995.

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510(k) Summary

This summary of 510(K) safety and effectiveness information is being submitted in accordance with the requirement of 21 CFR 807.92.

1. Submitter Information

Sponsor Name: Chongqing Peninsula Medical Technology Co., Ltd.
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Application Correspondent:

Contact Person: Ms. Cassie Lee
Guangzhou GLOMED Biological Technology Co., Ltd.
Address: 2231, Building 1, Rui Feng Center, Kaichuang Road, Huangpu District, Guangzhou, Guangdong, China
Tel: +86 20 8266 2446
Email: regulatory@glomed-info.com

2. Subject Device Information

Type of 510(k):	Traditional
Trade Name:	Irradiation Cosmetic Device
Model Name:	HairPro Plus
Classification Name:	Infrared Lamp
Review Panel:	General & Plastic Surgery
Product Code:	OAP
Regulation Number:	890.5500
Regulation Class:	2

3. Predicate Device (1) Information

Sponsor: Chongqing Peninsula Medical Technology Co., Ltd.
Classification Name: Infrared Lamp

Sponsor: *Chongqing Peninsula Medical Technology Co., Ltd*
Subject Device: *Irradiation Cosmetic Device, Model: HairPro Plus*
File No.: *510(k) summary (V1.0)*

Trade Name: Irradiation Aesthetic Device

Model name: HairPro

510(K) Number: K171835

Review Panel: General & Plastic Surgery

Product Code: OAP

Regulation Number: 890.5500

Regulation Class: 2

Predicate Device (2) Information:

Sponsor: Capillus LLC

Classification Name: Infrared Lamp

Trade Name: Capillus272

510(K) Number: K153618

Review Panel: General & Plastic Surgery

Product Code: OAP

Regulation Number: 890.5500

Regulation Class: 2

4. Device Description

Irradiation Cosmetic Device (Model: HairPro Plus) consists of laser diodes that are spread throughout the cap. The device uses diode lasers to cover the entire area of the head that is normally covered with hair, and this unique design allows the treatment of the entire scalp without manual movement.

In the process of the cap working, the indicator blinks red based on the working frequency of the laser diodes. Built-in timing function, the cap can record the time per treatment, and the cap can stop working automatically after each 30 minutes treatment. When the built-in IR detected the cap is not worn on the head, the laser light output will be automatically suspended immediately and the cap will automatically shut down after 10 minutes.

5. Intended Use

The Irradiation Cosmetic Device (Model: HairPro Plus) is indicated to promote hair growth in females with androgenetic alopecia who have Ludwig-Savin Classifications of I - II and males with androgenetic alopecia who have Norwood-Hamilton Classifications of IIa – V and for both, Fitzpatrick Classification of Skin Phototypes I to IV.

6. Test Summary

Sponsor: Chongqing Peninsula Medical Technology Co., Ltd
Subject Device: Irradiation Cosmetic Device, Model: HairPro Plus
File No.: 510(k) summary (V1.0)

Irradiation Cosmetic Device (Model: HairPro Plus) has been evaluated the safety and performance by lab bench testing according to the following standards:

Standards No.	Standard Title	Version	Date
IEC 60601-1	Medical Electrical Equipment - Part 1: General Requirements for Safety	2005+A1:2012	07/09/2014
IEC 60601-1-2	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	2014	09/17/2018
IEC 60825-1	Safety of laser products – Part 1: Equipment classification and requirements	Second edition:03/2007	07/09/2014
IEC60601-1-11	Medical Electrical Equipment - Part 1-11: General Requirements for Basic Safety and Essential Performance - Collateral Standard: Requirements for Medical Electrical Equipment and Medical Electrical Systems Used	2015-1	06/27/2016
ISO 10993-5 (Cytotoxicity)	Biological evaluation of medical devices - Part 5: Tests for In Vitro cytotoxicity	2009/(R)2014	12/23/2016
ISO 10993-10 (Sensitization and Irritation)	Biological evaluation of medical devices - Part 10: Tests for irritation and skin sensitization	2010/(R)2014	07/26/2016

7. Comparison to Predicate Device

Compare with predicate device, the subject device is very similar in design principle, intended use, indications for use, functions and the applicable standards. The differences between subject device and predicate device do not raise and new questions of safety or effectiveness.

Elements Comparison	Subject Device	Predicate Device 1	Predicate Device 2	Verdict
Company	Chongqing Peninsula Medical Technology Co., Ltd.	Chongqing Peninsula Medical Technology Co., Ltd.	Capillus LLC	SE
Trade Name	Irradiation Cosmetic Device (model:HairPro Plus)	Irradiation Aesthetic Device HairPro	Capillus272 Pro, Capillus272 OfficePro, Capillus82, Capillus202	SE

Sponsor: Chongqing Peninsula Medical Technology Co., Ltd

Subject Device: Irradiation Cosmetic Device, Model: HairPro Plus

File No.: 510(k) summary (V1.0)

Elements of Comparison	Subject Device	Predicate Device 1	Predicate Device 2	Verdict
Classification Name	Infrared Lamp	Infrared Lamp	Infrared Lamp	SE
510(k) Number	Applying	K171835	K160285	--
Product Code	OAP	OAP	OAP	SE
Intended Use / Indications for Use	The Irradiation Cosmetic Device (Model: HairPro Plus) is indicated to promote hair growth in females with androgenetic alopecia who have Ludwig-Savin Classifications of I - II and males with androgenetic alopecia who have Norwood-Hamilton Classifications of IIa – V and for both, Fitzpatrick Classification of Skin Phototypes I to IV.	The Irradiation Cosmetic Device (Model: HairPro) is indicated to promote hair growth in females with androgenetic alopecia who have Ludwig-Savin Classifications of I - II and males with androgenetic alopecia who have Norwood-Hamilton Classifications of IIa – V and for both, Fitzpatrick Classification of Skin Phototypes I to IV.	The Capillus272 Pro, Capillus272 OfficePro, Capillus82, and Capillus202 are intended for the promotion of hair growth in females with androgenic alopecia who have Ludwig-Savin Classifications I- II, and in males with androgenic alopecia who have Norwood Hamilton Classifications IIa-V ; and both genders having Fitzpatrick Classification of Skin Phototypes I to IV.	SE
Waveform	Visible red laser	Visible red laser	Visible red laser	SE
Wavelength	650nm±5nm	650nm±5nm	650	SE
Amounts of Laser Lamp	272	81	Capillus272 Pro: 272 Capillus202: 202 Capillus82: 82	SE
Energy of per Laser Lamp	5mW ±10%	5mW ±10%	<5mW	SE
Classification according to IEC60825-1	Class 3R	Class 3R	Class 3R	SE
Treatment Time	Each Treatment: 30 min Total Treatment: 3 times per week	Each Treatment: 30 min Total Treatment: 3 times per week	Each Treatment: 30 min Total Treatment: every other day, for 17 weeks.	SE
Treatment Area	495.37 cm ² Mathematically Max. derived	202.3 cm ² Mathematically Max. derived	Capillus272: 495.37 cm ² Capillus202: 449.51 cm ² Capillus82: 194.42 cm ²	SE

Sponsor: Chongqing Peninsula Medical Technology Co., Ltd

Subject Device: Irradiation Cosmetic Device, Model: HairPro Plus

File No.: 510(k) summary (V1.0)

Elements of Comparison	Subject Device	Predicate Device 1	Predicate Device 2	Verdict
			Mathematically Max. derived	
Irradiance (power per area)	2.7454 mW/cm ² Mathematically Max. derived	2.2022 mW/cm ² Mathematically Max. derived	Capillus272: 2.7454 mW/cm ² Capillus202: 2.2469 mW/cm ² Capillus82: 2.1088 mW/cm ² Mathematically Max. derived	SE
Fluence	4.9417 J/cm ² Mathematically Max. derived	3.9639 J/cm ² Mathematically Max. derived	Capillus272: 4.9417 J/cm ² Capillus202: 4.044 J/cm ² Capillus82: 3.7920 J/cm ² Mathematically Max. derived	SE
Dimension	199mm*179mm*88mm (L x W x H)	199mm*179mm*88mm (L x W x H)	--	SE
Life Expectancy	5 years	5 years	--	SE
Weight	1100g	1000g	--	SE
Environment for Operation	Temperature: 5°C~30°C Humidity: ≤ 80% Atmosphere range: 700hPa-1060hPa	Temperature: 5°C~30°C Humidity: ≤ 80% Atmosphere range: 700hPa-1060hPa	--	SE
Environment for Storage	Temperature: 0°C~50°C Humidity: ≤ 85% Atmosphere range: 50kPa-110k	Temperature: 0°C~50°C Humidity: ≤ 85% Atmosphere range: 50kPa-110k	--	SE
Safety Feature	Complied with IEC 60601-1 and IEC 60601-1-2	Complied with IEC 60601-1 and IEC 60601-1-2	Complied with IEC 60601-1 and IEC 60601-1-2	SE
Biocompatibility Feature	All patient contacting materials are complied with ISO 10993-5, ISO 10993-10	All patient contacting materials are complied with ISO 10993-5, ISO 10993-10	All patient contacting materials are complied with ISO 10993-5, ISO 10993-10	SE

Final Conclusion

The subject device Irradiation Cosmetic Device (Model: HairPro Plus) has all features of the predicate device. The few differences do not affect the safety and effectiveness of the subject device. Thus, the subject device is substantially equivalent to the predicate device.

8. Summary Prepared Date 11 April 2020